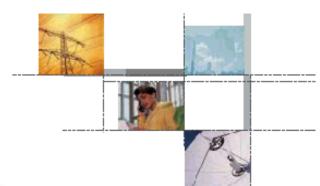


The FR 2000 Rectifier





Description:

The FR 2000 rectifier is a single phase, hot-pluggable, fan-cooled rectifier. The constant output power characteristic supplies the specified power over the full output voltage range. The benefit is an optimised modular system design (fewer number of modules) and matches the supply requirements for state-of-the-art telecom equipment. This performance as well as the extended temperature range, wide input voltage range, high power density and advanced technology are the key factors of the success of this rectifier and it offers a cost effective and reliable solution.

The rectifier meets the requirements set by the telecommunications standards.

Features

- Efficiency ≥ 91%
- Compact (500 W / I) and light (4.4 kg)
- Hot pluggable, all connectors at the rear
- Fan cooled with air flow monitoring
- Wide input voltage range: 88 276 V_{rms}
- Power factor ~ 1.0 (sinusoidal input current)
- Constant output power characteristic
- Analogue system bus
- Operating temperature range up to 70°C

Specification

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FR 48 V - 2000 W - E Product name Efficiency ≥ 91 %

Losses, max. 200 W

EN 60 950, class I Safety

UL 60 950 CAN / CSA - C22.2

EMI, radiated compliant with EN 55 022, class B

EN 300 386-2

Cooling Fan cooled

Power density

8.2 W / in³ 500 W / I

<u>Input</u>

 $88\;...\;276\;V_{rms}$ Voltage range Volt. range, red. power 88 ... 184 V_{rms}

Current maximum 12 A_{rms} Meets IEC 1000-3-2 I ine current

THD < 5 %

EMI, conducted EN 55 022, class B

Output

Voltage, nominal $53.5 V_{dc}$ Voltage adjust range 42 ... 58 V_{dc} \pm 250 mV_{dc} Voltage error, static EMI, conducted compliant with EN 55 022, class A Current limit, nominal $46.5\,A_{\text{dc}}$ Limit adjustment range 0 ... 46.5 A_{dc}

 $<\pm~3~A_{dc}$ Load sharing 2000 W, fixed Power limit

Mechanics

2.6" / 65 mm Width, overall Depth, overall 13.6" / 346 mm Height, body 7.9" / 200 mm Weight 9.7 lb / 4.4 kg

Environment

-25 ... + 70 °C Ambient temperature 60 ... + 70 °C Reduced power Relative humidity 95 % max, non cond.

Accessories

Single back plane P/N: D0100298